

## Introduction to the Cars Large Data Set

- 1 How many vehicles are included in the LDS?  
**3827**
- 2 What makes of vehicles are included and why?  
**BMW, Ford, Toyota, Vauxhall, Volkswagen - The 5 most frequently registered makes**
- 3 How many electric powered cars are there?  
**Only 1**
- 4 How many cars have owners in the North West region?  
**1164**
- 5 How many cars have female registered keepers?  
**878**
- 6 How many are company cars?  
**1351**
- 7 What is the largest engine size?  
**4951cc**
- 8 How many cars were registered in 2012?  
**Don't know. Only 2002 and 2016 in the data set**
- 9 What makes are the cars with the lowest carbon dioxide emissions?  
**Assuming the 0 are incorrect, BMW 13g/km**
- 10 What is the highest level of carbon monoxide emissions?  
**1.249g/km**
- 11 How many vehicles have nitrogen oxide emissions less than 0.01 g/km?  
**225**
- 12 What is the highest level of particulate emissions?  
**1.495g/km**
- 13 What is the actual mass of the car with the largest mass?  
**2450kg including average driver (75kg), 2375kg without average driver**
- 14 What make is the car with the highest hydrocarbon emissions?  
**BMW**
- 15 Jamie drives a BMW to work and home each day. Each journey is approximately 40 miles. Estimate the total emissions from Jamie's car per annum by finding the average emissions for all BMWs in the LDS.

Mean CO2	Mean CO	Mean NOX	Mean particulate	Mean hydrocarbon	Total mean g/km	80 miles per day	50 weeks
145.4047	0.264315	0.052058	0.041179	0.05604	145.8183	18664.74	4666186

**Total emissions approximately 4.5 tonnes**